

PDR RID Report

Originator Hiroshi Watanabe
Organization ERSDAC (Japan, ASTER GDS)
E Mail Address
Document FOS PDR Day 2 - Volume 1

Phone No

RID ID	PDR	132
Review	FOS	
Originator Ref		008
Priority	2	

Section

Page

Figure Table

Category Name Design

Actionee HAIS

Sub Category

Subject The command operation from ASTER ICC

Description of Problem or Suggestion:

The following items are not clarified in the FOS PDR document.

- Does ASTER ICC transmit EOC command-mnemonics for the activity list?
- Is it possible for ASTER ICC to send stored commands to ASTER after Observation - 6 hours for contingency?
- Is it possible for ASTER ICC to check real-time telemetry and send real-time commands to ASTER based on the status of the telemetry within a TDRS contact? How long does it take to process the real-time command at EOC?
- Is it possible for ASTER ICC to send real-time command with a time tag (We understand usually real-time command does not include time tag) when the real-time command will be uplinked?

Originator's Recommendation

GSFC Response by:

GSFC Response Date

HAIS Response by: D. Herring

HAIS Schedule 2/17/95

HAIS R. E. D. Dunn/J. Kuntz

HAIS Response Date 2/15/95

The ASTER ICC does not transmit command mnemonics for the activity list. ASTER would define their activities and associated commands which would be included in the Spacecraft and Instrument Data Base received from the AM-1 Project prior to launch. Any required modifications after launch would be accomplished through the approved operational procedures for modification of the Activity Data Base.

The ASTER ICC would not be able to request changes to the stored command load once it is less than 5 hours before the last scheduled TDRS contact prior to the observation in question. Any changes required within this 5 hour window must be accomplished through real-time commanding at the EOC. Changes to the stored command load would be accepted from 5 hours to 24 hours prior to the observation if there were no other impacts to the load. Any changes requested from 24 hours to 48 hours prior to the observation would be accepted.

It was agreed between ECS, ASTER, and the AM-1 Project that ASTER would not require the capability to send real-time commands. Reference RID PDR # 25. The ASTER ICC would be able to request that the EOC Flight Operations Team send a real time command in the event of a problem. The request could include the approximate time of uplink. The response time by the EOC Flight Operations Team would depend on the operational situation, but it could be as fast as less than 1 minute

Status Closed

Date Closed 2/24/95

Sponsor Johns

Attachment if any
